Staticide® ESD Safety Shield

CLEARly the best static protective coating for plastics that has never been seen!

ACL Staticide® presents a family of coatings that gives long-lasting protection and will not wash off with water as an anti-stat would. Topical anti-stats are biodegradable and need reapplication after a few weeks whereas Staticide® ESD Safety Shield provides dependable protection by allowing static to dissipate at a safe rate regardless of relative humidity and without reapplication. The advanced formulas are blended from durable polymer materials that are safe to use in ESD controlled environments where contamination is a concern. These single-coat systems are flexible enough for soft plastics like tubing, clamshell protective packaging, carrying trays and lids and they dry with a see-through clarity that surpasses any ambient cure coating on the market.* Easy to apply, Staticide® ESD Safety Shield can be brushed, dipped or sprayed and provides excellent adhesion to a variety of plastics without any special cure treatment. **So defend your plastic parts, bins and shelving against static with Staticide® ESD Safety Shield because when it comes to static, ACL Staticide has you covered.**

Features and Benefits

Static Dissipative	Provides a surface resistivity of 10^5 – 10^7 ohms/sq
Translucent	Perfect for viewing ports on machines
Durable	Doesn't chip or peel and is able to withstand normal handling without scratching
Adhesion	Bonds to a variety of plastics
Customize	Special formulations available for lower resistance and complex plastics
No Contaminants	No silicone, No chlorides
Easy to Apply	No special equipment necessary
*Easy to Use	6300 has no special drying requirements 6400 requires a low temperature heat cure

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ACL Incorporated registered to
ISO 9001:2000
Certificate NO. A3656

Staticide ESD Safety Shield

Translucent Dissipative Coating for Static Protection

Product Code	**6300S, 63001, 63005**
Intended End Use	To coat acrylic, polycarbonate, PET, PVC plastics for interior ESD applications
Product Code	**6400S, 64001, 64005**
Intended End Use	To coat polypropylene and polyester plastics for interior ESD applications

COMPLIANCY

Static Decay	Meets MIL B-81705 when tested in accordance with Federal Test Standard 101B, Method 4046
Resistance	Meets ANSI / ESDA S20.20 and IEC 61340-5-1
Regulated Chemicals	Meets EU RoHS and China RoHS

PHYSICAL PROPERTIES

Resistivity	10E6-10E7 ohms per square*
Weight/Gallon Range	8.7-9.1 lbs
Coverage (foam brush)	1500 sq. ft. / gallon @ .5 mil dry (approx)
Coverage (flow coat)	600 sq. ft. / gallon @ 1.5 mil dry (approx)
VOC Range	1.18 lbs / gallon
Freeze Thaw Cycle	Do not Freeze
Contaminants	No Chlorides, No Silicone
Abrasion Resistance	Coating exhibits resistance to abrasion that is similar to or better than that observed on bare substrate
Solvent Resistance	Coated panel was submerged in a 50/50 mix of isopropyl alcohol and water for 30 minutes to no effect
Transparency	93 – 96% T measured by UV Spectra
Shelf Life	Three months (retest older material prior to use)

APPLICATION RECOMMENDATIONS

Application Method: Dip, flow coat, HVLP Sprayer, polyurethane-foam brush, or trigger sprayer

To promote clarity and prevent specking, plastic surface should be cleaned and dust-free before applying Staticide® ESD Safety Shield. Ideal temperatures for applying coating to plastic are 60 - 75°F in 30 - 40 % RH. Staticide® ESD Safety Shield is a water-based acrylic coating. Clean applicator tools with water immediately after use. **Staticide® ESD Safety Shield #6300** will be dry to touch in 2 hours (7 days for full hardness). Force drying is optional. **Staticide® ESD Safety Shield #6400** requires a force drying of 175 - 195°F for 15 – 30 minutes in an oven. As an option, parts may be preheated between 140 - 175°F for better coverage.

Maintain coated surface with 6001 Mat & Tabletop Cleaner.

*Special formulation is available with surface resistivity < 10^5 ohms per square

REV DATE : 02/08/08 mkb